## **Claims**

## I claim:

1. A wound irrigation device comprising a reservoir housing, containing a wound irrigation solution, and a discharge means, wherein said discharge means is removably attached to said reservoir housing, such that said discharge means directs a pressurized stream of said wound irrigation solution when said reservoir housing is pressurized.
2. The wound irrigation device according to claim 1, wherein said discharge means comprises a flat disc.
3. The wound irrigation device according to claim 2, wherein said flat disc comprises a plurality of ports.
4. The wound irrigation device according to claim 3, wherein said plurality of ports discharge a plurality of pressurized steams of the wound irrigation solution at an angle, such that said pressurized streams intersect over a center of said discharge means.
5. The wound irrigation device according to claim 3, wherein said discharge means comprises four ports.
6. The wound irrigation device according to claim 5, wherein each of said ports has a diameter of about 0.04 inches.
7. The wound irrigation device according to claim 3, wherein said reservoir housing comprises a threaded neck and an opening.
8. The wound irrigation devise according to claim 7, wherein said flat disc is

positioned over said opening.

9. The wound irrigation device according to claim 8, wherein said flat disc is affixed
over said opening with a threaded end cap comprising a connection ring which engages said
flat disc, such that said ports are uncovered.

- 10. The wound irrigation device according to claim 9, wherein said threaded end cap further comprises a removable protective membrane, wherein said protective membrane protects said ports and said wound irrigation solution from contamination.
- 11. The wound irrigation device according to claim 10, wherein said protective membrane comprises a pull tab, such that said protective membrane may be removed by pulling said pull tab.
- 12. The wound irrigation device according to claim 1, further comprising a splash guard.
- 13. The wound irrigation device according to claim 12, wherein said splash guard is hemi-spherical.
- 14. The wound irrigation device according to claim 13, wherein said splash guard comprises a removable protective cap.
- 15. The wound irrigation device according to claim 1, wherein said discharge means is an adjustable discharge means, whereby said adjustable discharge means permits adjustment of the rate of discharge of said irrigation solution.
- 16. The wound irrigation device according to claim 15, wherein said adjustable discharge means comprises a valve cap and a valve head, wherein said valve cap is

- removably affixed to said reservoir housing and said valve head is threadably affixed to said valve cap.
  - 17. The wound irrigation device according to claim 16, wherein said valve cap comprises an inner air inlet and an inner water outlet, wherein said inner water outlet substantially surrounds said inner air inlet.
    - 18. The wound irrigation device according to claim 17, wherein said valve head comprises an outer air inlet and an outer water outlet, wherein said outer water outlet substantially surrounds said water air inlet.
    - 19. The wound irrigation device according to claim 18, wherein said outer air inlet comprises a circular port.
    - 20. The wound irrigation device according to claim 18, wherein said outer water outlet comprises a plurality of circular ports.
    - 21. The wound irrigation device according to claim 18, wherein said inner air inlet and said outer air inlet combine to form an air inlet, and said inner water outlet and said outer water outlet combine to form a water outlet.
    - 22. The wound irrigation device according to claim 21, further comprising an air hose, wherein said air hose comprises a proximal end and a distal end, wherein said proximal end of said air hose is affixed to said inner air outlet and said distal end of said air hose is located near a bottom inner surface of said reservoir housing.
  - 23. The wound irrigation device according to claim 22, wherein said distal end of said air hose comprises a ball valve.

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- 24. A method for irrigating a wound, said method comprising the following steps:

  (a) providing a sterile wound-irrigation solution in a compressible or pressurized reservoir housing having a discharge means comprising at least one port therethrough wherein said port forms a nozzle for directing a pressurized stream of said solution, and wherein the shape and configuration of said port, or ports, results in a dispersed stream of said solution;
  - (b) directing the discharge means and reservoir housing so as to discharge the wound-irrigation solution toward said wound; and
  - (c) discharging said wound-irrigation solution from said reservoir housing and through said port, or ports, to produce a dispersed stream of said wound-irrigation solution directed at said wound, wherein said dispersed stream is applied with sufficient force to dislodge contaminants, thereby effectively irrigating said wound.
  - 25. The method, according to claim 24, wherein said wound-irrigation solution is discharged from said port, or ports, at a pressure between about 4 PSI and about 20 PSI.
  - 26. The method, according to claim 24, wherein said discharge means has a plurality of ports.
  - 27. The method, according to claim 24, wherein the diameter of said circular apertures is between that of a 10 gauge hypodermic needle and a 30 gauge hypodermic needle.
  - 28. The method, according to claim 24, wherein the diameter of said circular apertures is between that of a 16 gauge hypodermic needle and a 25 gauge hypodermic needle.
  - 29. The method, according to claim 24, wherein said ports are circular apertures with a diameter of less then about 1/8 inch.

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1	30. The method, according to claim 24, wherein said circular apertures are conical
2	in shape through said aperture.

- 1 31. The method, according to claim 24, wherein said discharge means comprises at least one elongated port.
- 1 32. The method, according to claim 24, wherein said discharge means is detachably engaged to said reservoir housing.
  - 33. The method, according to claim 24, wherein said discharge means comprises a protective shield.
    - 34. The method, according to claim 31, wherein said protective shield is detachable.